



# **Parcel C Remedial Action**



## **Groundwater and Soil Vapor Characterization**

**In Support of Parcel C Remedial  
Action at**

**RU-C1, C4, C5 and Building 241**

**BCT Meeting  
March 29, 2012**



# Parcel C Groundwater and Soil Gas Characterization

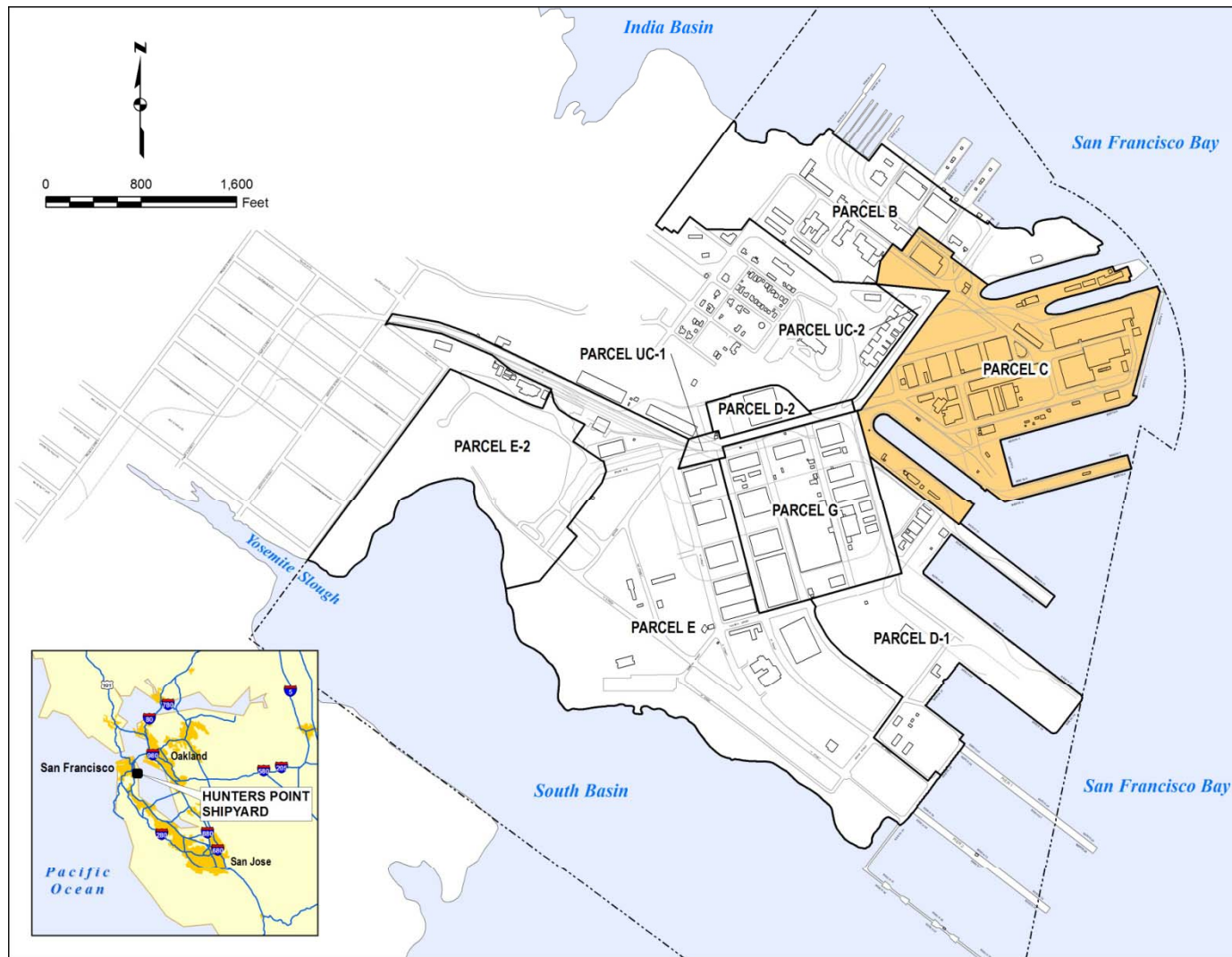


## Overview:

- Location of Parcel C and RU Units
- Purpose of Characterization
- Results of the Characterization Effort
- Schedule



# Parcel C Location

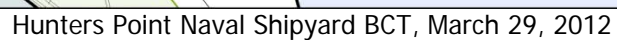




## Purpose of Characterization



- **To Evaluate current Groundwater and Soil Vapor Conditions prior to Remedial Action**
  - Current plumes designated for remediation in the Parcel C FS and ROD are based on data from 2004.
  - Initial characterization study collected data to refine areas for groundwater and soil vapor treatment at RU-C1, RU-C4 and the southern portion of RU-C5 (IR-06)
- **Contaminants included CVOCs and their degradation products, and Cr VI.**





## Step-out Step-in Criteria

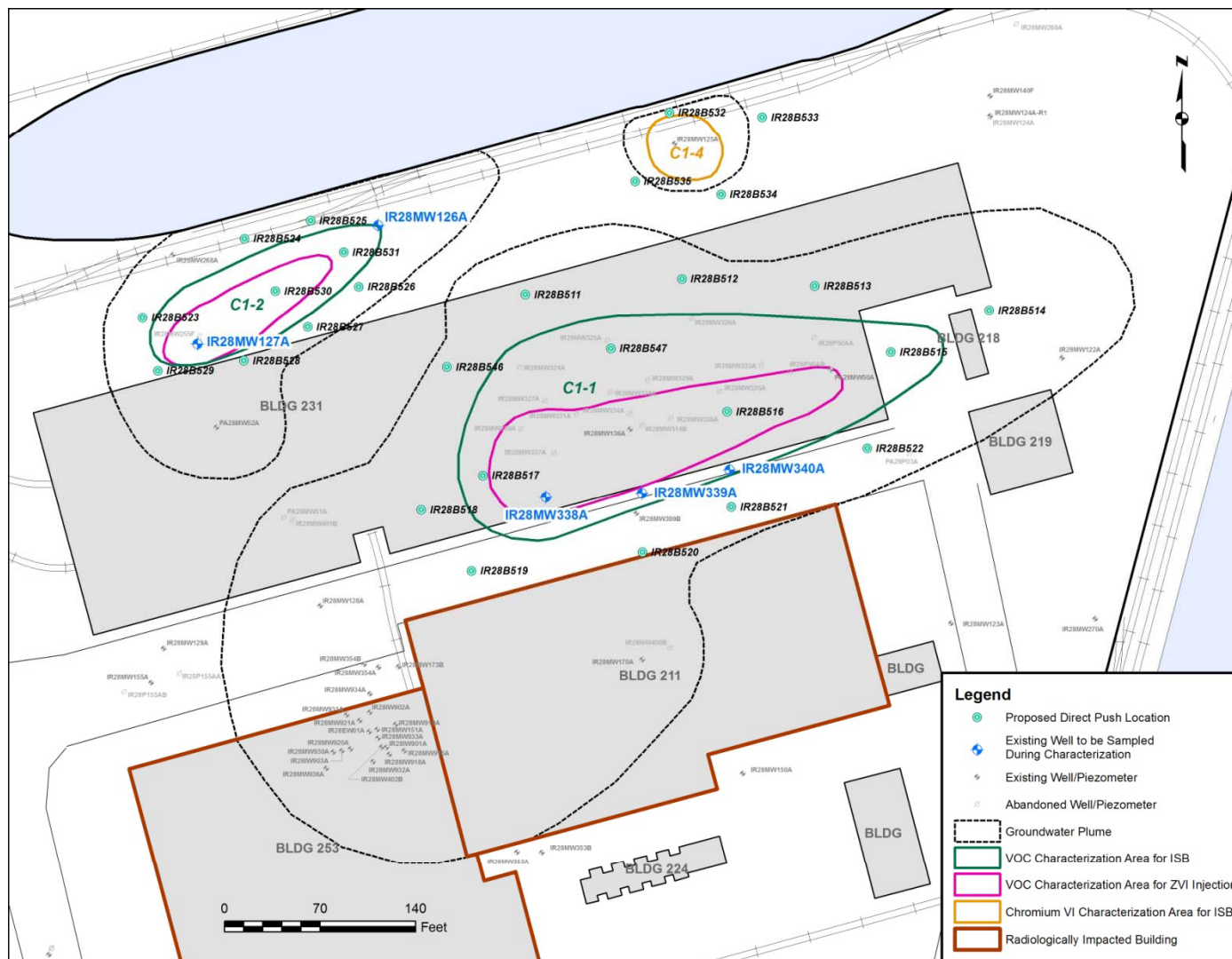


Characterization involved a step-out/step-in procedure based on the target concentrations that determine ZVI injections:

- $\text{PCE} > 15 \mu\text{g/L}$
  - $\text{TCE} > 110 \mu\text{g/L}$
  - $\text{Total DCE} > 2,100 \mu\text{g/L}$
  - $\text{VC} > 5 \mu\text{g/L}$
- If concentrations were greater than those numbers we stepped out. If concentrations were less we stepped in. The step-out/step-in distance was based on the concentration level detected.
  - For example at Plume RU-C4 where IR28B536 was above the TCE target for ZVI at a concentration of  $310 \mu\text{g/L}$ , we stepped out 40 ft east to IR28B549.
- Step out distances were made by the registered geologist



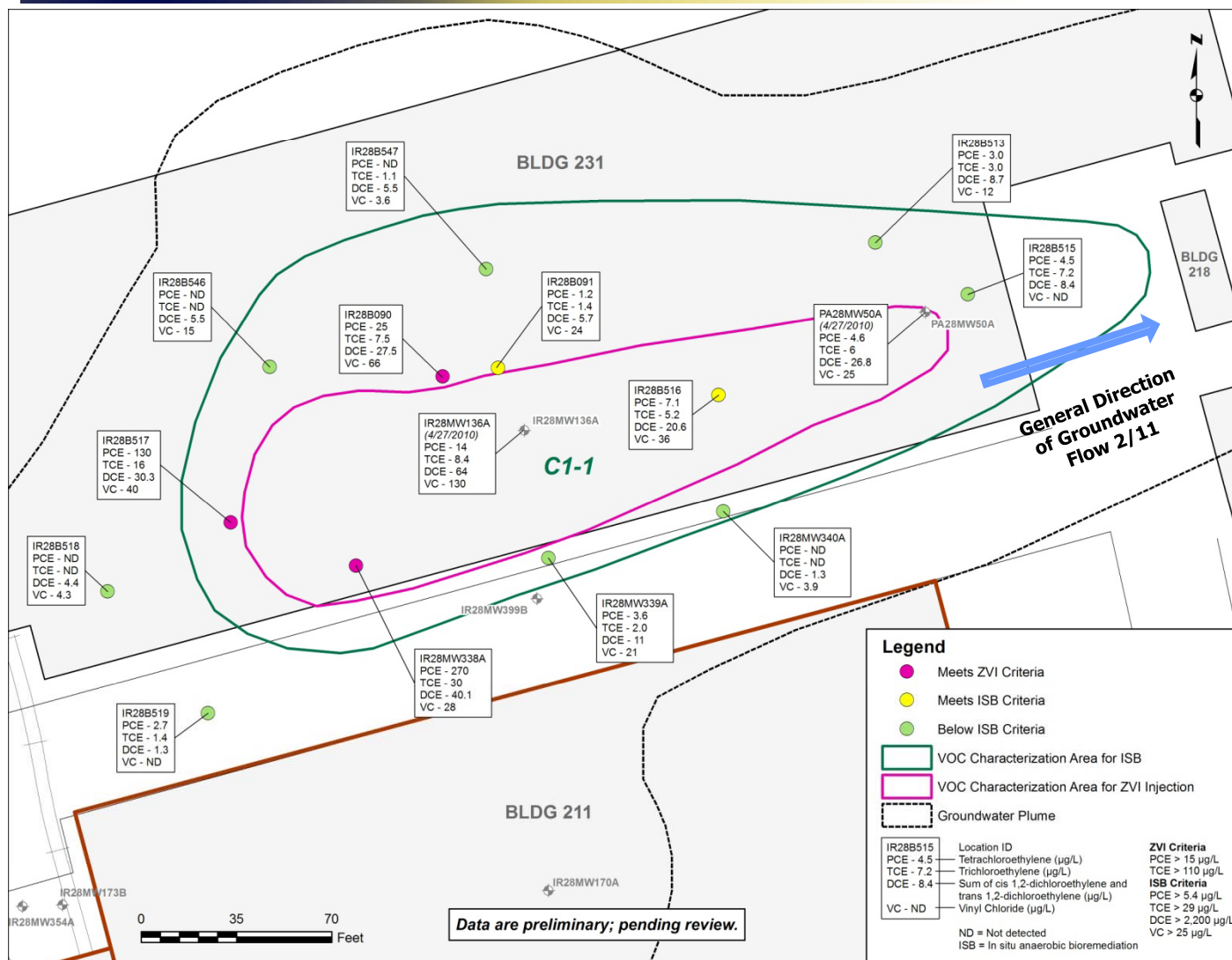
# RU-C1 Grab Groundwater Locations Sampled



Hunters Point Naval Shipyard BCT, March 29, 2012



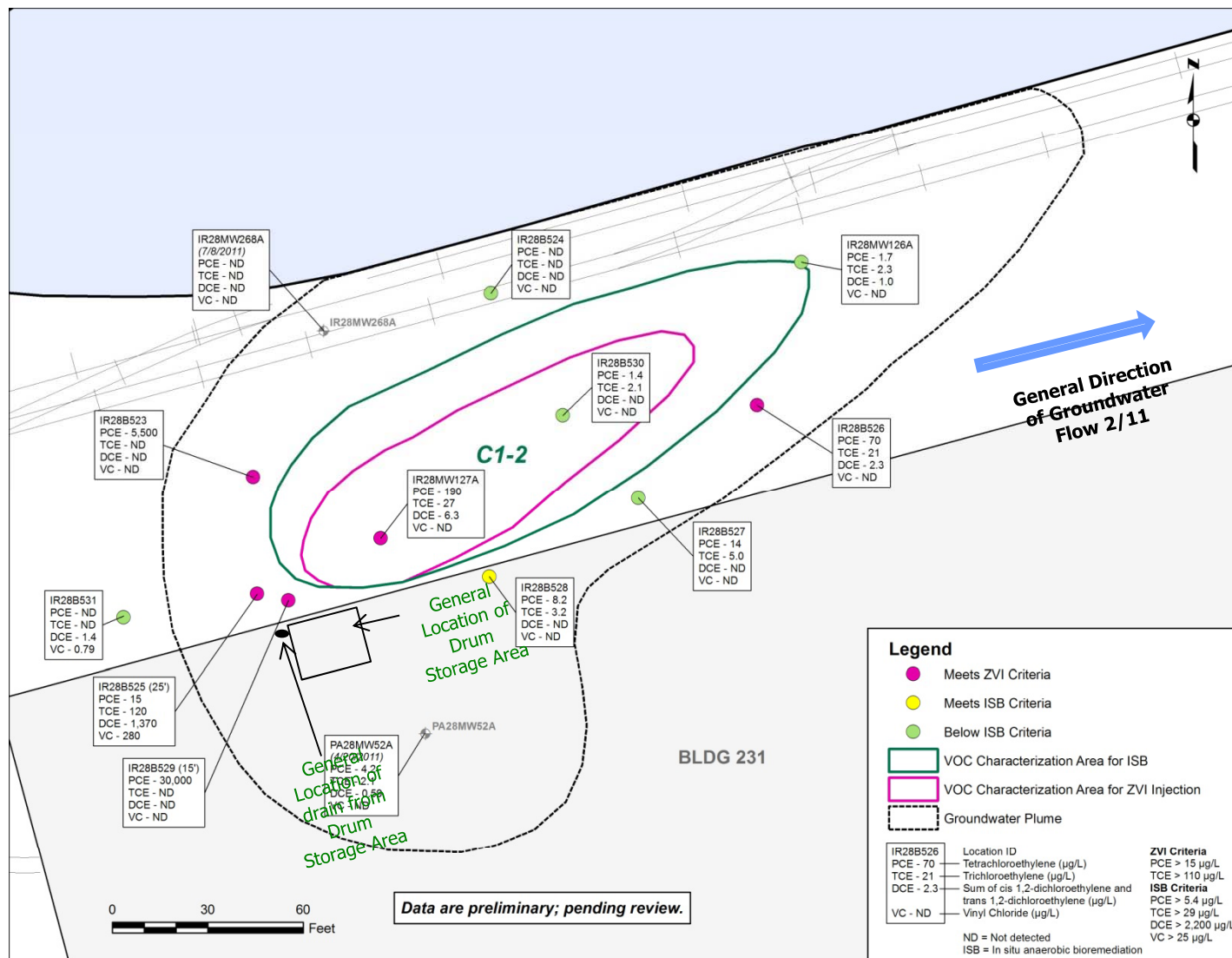
# Groundwater Data for Plume C1-1



Hunters Point Naval Shipyard BCT, March 29, 2012

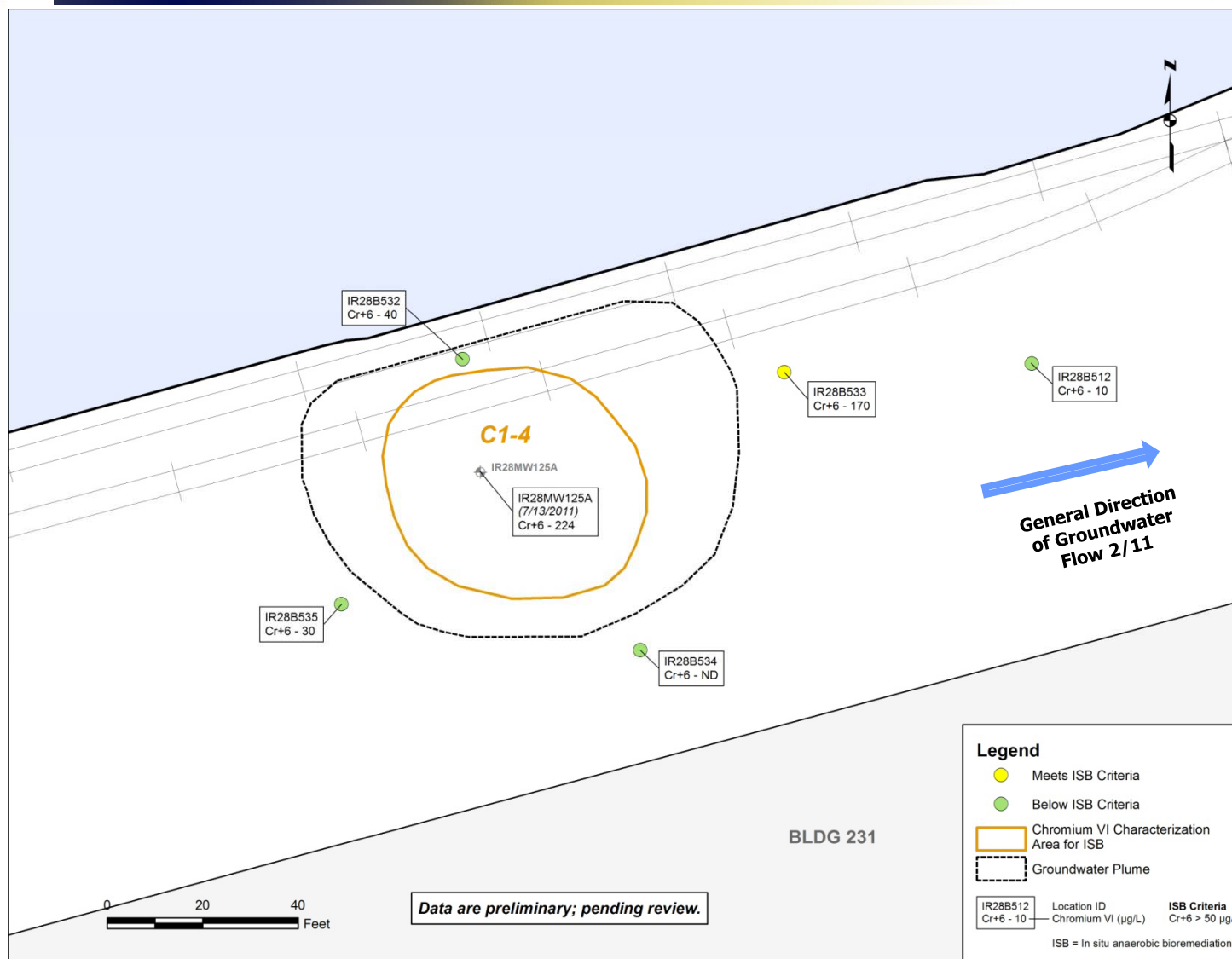


# Groundwater Data for Plume C1-2



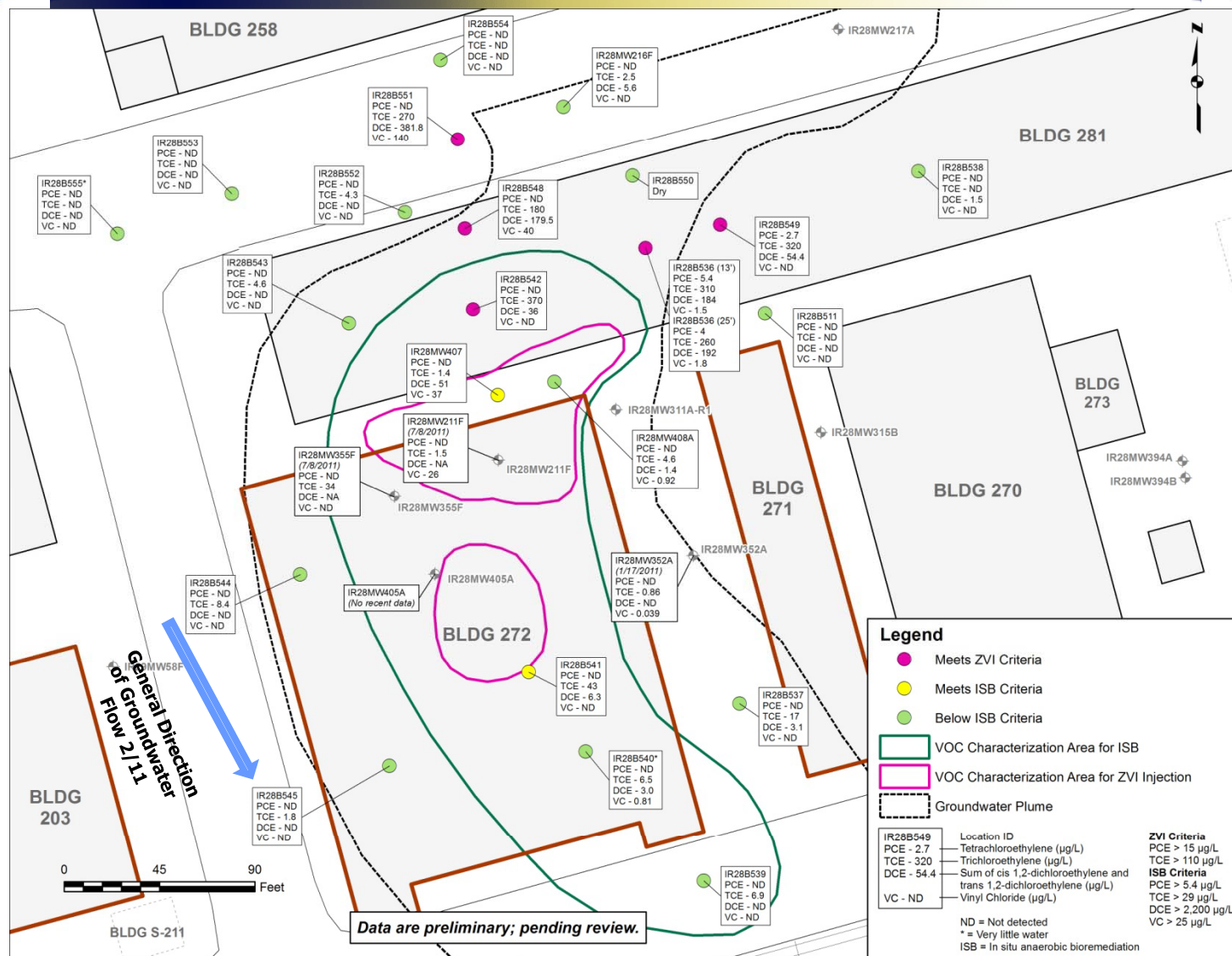


# Groundwater Data for Plume C1-4



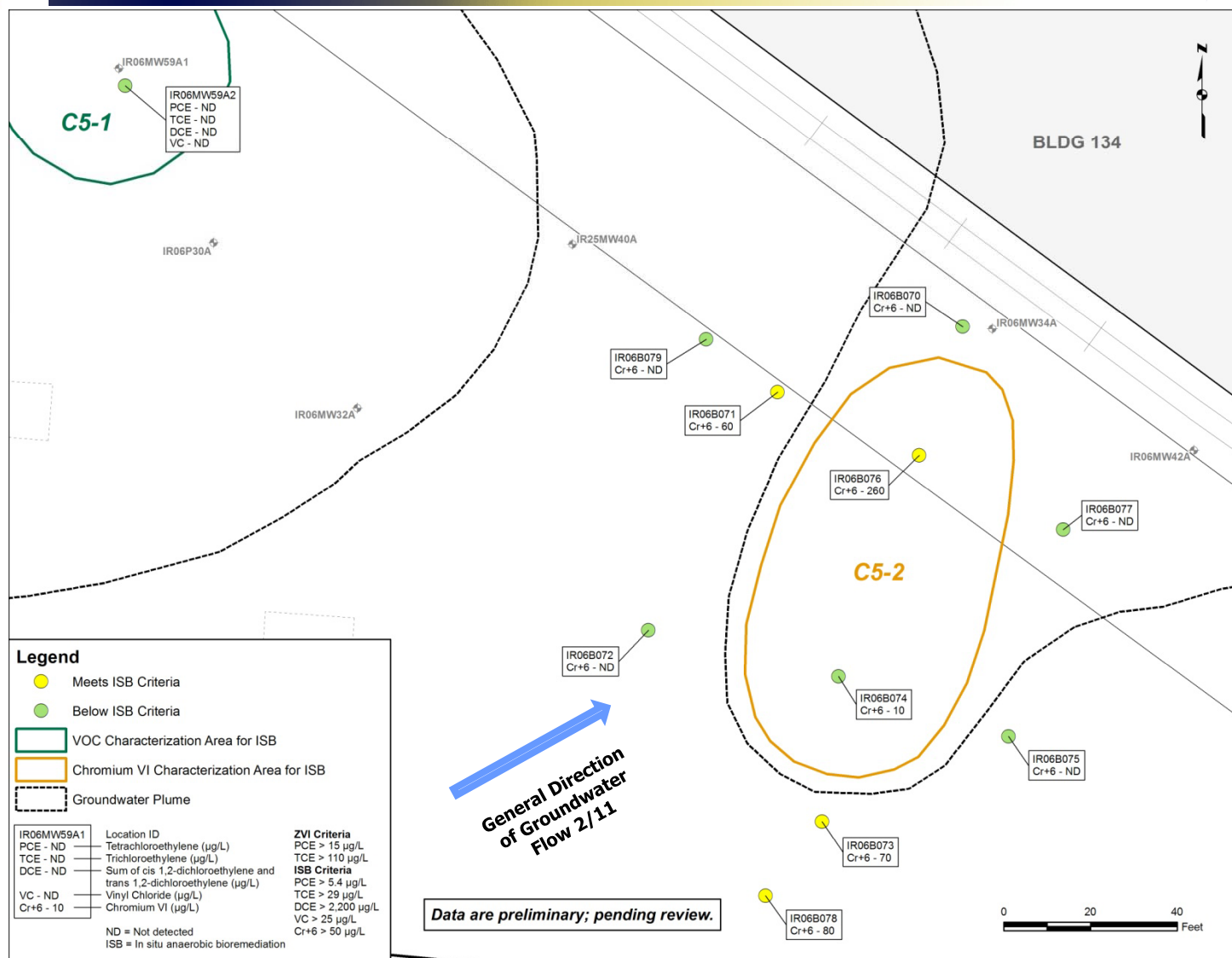


# RU-C4 Grab Groundwater Sample Locations





# RU-C5 Grab Groundwater Sample Locations





# Schedule Summary



- |   |                    |
|---|--------------------|
| • BCT/Triad   | March 29, 2012     |
| • Prepare Tech Memo Summarizing Characterization Data | April 30, 2012     |
| • Submit Draft Final Remedial Design                  | July 2, 2012       |
| • Submit Draft Remedial Action Work Plan              | July 30, 2012      |
| • Submit Final Remedial Design                        | September 4, 2012  |
| • Agency Submittal of Comments to Draft RA Work Plan  | August 30, 2012    |
| • Respond to Agency Comments to Draft RA Work Plan    | September 18, 2012 |
| • Submit Final RA Work Plan                           | October 1, 2012    |